Human CD27 Ligand / CD70 Protein, Fc Tag

Catalog # TN7-H526x
For Research Use Only

**Description**

**Source**
Human CD27 Ligand, Fc Tag (TN7-H526x) is expressed from human 293 cells (HEK293). It contains AA Gln 39 - Pro 193 (Accession # P32970-1). Predicted N-terminus: Pro

**Predicted N-terminus**
Pro

**Protein Structure**

<table>
<thead>
<tr>
<th>Fc(Pro 100 - Lys 330)</th>
<th>CD27 Ligand(Gln 39 - Pro 193)</th>
</tr>
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<tbody>
<tr>
<td>P01857</td>
<td>P32970-1</td>
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**Molecular Characterization**
This protein carries a human IgG1 Fc tag at the N-terminus. The protein has a calculated MW of 43.6 kDa. The protein migrates as 53 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

**Endotoxin**
Less than 1.0 EU per μg by the LAL method.

**Purity**
>85% as determined by SDS-PAGE.

**Bioactivity**
Measured by its binding ability in a functional ELISA. Immobilized Human CD27, Mouse IgG2a Fc Tag (Cat. No. CD7-H5257) at 2 μg/mL (100 μL/well) can bind Human CD27 Ligand, Fc Tag (Cat. No. TN7-H526x) with a linear range of 0.4-13 ng/mL (QC tested).

**Formulation and Storage**

**Formulation**
Lyophilized from 0.22 μm filtered solution in 50 mM Tris, 100 mM Glycine, pH7.5. Normally trehalose is added as protectant before lyophilization.

Contact us for customized product form or formulation.

**Reconstitution**
Please see Certificate of Analysis for specific instructions. For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

**Storage**
For long term storage, the product should be stored at lyophilized state at -20°C or lower. Please avoid repeated freeze-thaw cycles.

No activity loss was observed after storage at:
- 4-8°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

**Background**

Cluster of Differentiation 70 (CD70) is also known as CD27 ligand (CD27L / CD27LG), TNFSF7, TNFSF7G, is a type II transmembrane glycoprotein belonging to the TNF superfamily (TNFSF) and is a surface antigen found on activated T-and B-lymphocytes and mature dendritic cells. Binding of CD70 to its receptor CD27 induces in priming, effector functions, differentiation and memory formation of T-cells, and thus is involved in the biological processes including T-cell activation, the proliferation of costimulated T-cells, as well as the generation of cytolytic T-cells. CD70 on T cells provides costimulatory signals that are required for T cell proliferation, clonal expansion and the promotion of effector T cell formation. CD70 on mouse B cell has been shown to inhibit terminal differentiation of activated B cells into plasma cells and enhances commitment to memory B cell responses. CD70 induces proliferation and IFNγ production, on NK cells.

**References**


Please contact us at TechSupport@acrobiosystems.com, if you have any questions about this product.
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**Assay Data**

**SDS-PAGE Data**

Human CD27 Ligand, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 85%.

**Bioactivity Data**

*Immobilized Human CD27, Mouse IgG2a Fc Tag (Cat. No. CD7-H5257) at 2 μg/mL (100 μL/well) can bind Human CD27 Ligand, Fc Tag (Cat. No. TN7-H526x) with a linear range of 0.4-13 ng/mL (QC tested).*

[Graph showing ELISA results for Human CD27 Ligand, Fc Tag binding to immobilized Human CD27, Mouse IgG2a Fc Tag]